

**U.S.S.N. 09/444,762**  
**BRYAN, Bruce**  
**PRELIMINARY AMENDMENT**

*B. J. Bryan*  
—56. The combination of claim 52, wherein a component of the bioluminescence generating system is selected from among an insect system, a coelenterate system, a ctenophore system, a bacterial system, a mollusk system, a crustacea system, a fish system, an annelid system and an earthworm system.—

—57. The combination of claim 52, wherein a component of the bioluminescence generating system is selected from among *Aequorea*, *Vargula*, *Renilla*, *Obelin*, *Porichthys*, *Aristostomias*, *Odontosyllis*, *Oplophorus*, *Gaussia* firefly and bacterial systems.—

—58. The combination of claim 52, wherein a component of the bioluminescence generating system is selected *Renilla Cavarnularia*, *Ptilosarcus*, *Stylatula*, *Acanthoptilum* and *Parazoanthus* systems.—

—59. The combination of claim 52, wherein a component of the bioluminescence generating system is selected from among *Chiroteuthis*, *Eucleoteuthis*, *Onychoteuthis*, *Watasenia*, cuttlefish, *Sepiolina*, *Oplophorus*, *Sergestes*, *Gnathophausia*; *Argyropelecus*, *Yarella*, *Diaphus* and *Neoscopelus* systems.—

*Renee  
1/24*  
—60. The combination of claim 52, wherein a component of the bioluminescence generating system is selected from among *Aequorea*, *Vargula*, *Renilla*, *Obelin*, *Porichthys*, *Odontosyllis*, *Aristostomias*, *Oplophorus*, *Gaussia*, firefly, bacterial, *Mnemiopsis*, *Beroe Gonadostomias*, *Gaussia*, *Halisturia*, Vampire squid, *Glyphus*, Mycotophid, *Vinciguerria*, *Howella*, *Florenciella*, *Chaudiodus*, *Melanocostus* Sea Pens, mollusc, mushroom, fish, insect, ctenophore and annelid systems.—

*61*  
—62. The combination of claim 52, wherein a component of the bioluminescence generating system is selected from among *Aequorea* and *Renilla*.—

U.S.S.N. 09/444,762

BRYAN, Bruce

PRELIMINARY AMENDMENT

*b1  
b2  
Original*  
—<sup>62</sup> 63. The combination of claim 1, wherein a component of the bioluminescence generating system is selected from among *Aequorea* and *Renilla*. —<sup>63</sup>

—<sup>63</sup> 64. The combination of claim 52, wherein a component of the bioluminescence generating system is selected from among *Obelin*, *Porichthys*, *Odontosyllis*, *Aristostomias*, *Oplophorus*, *Gaussia*, firefly, bacterial, *Mnemiopsis*, *Beroe Gonadostomias*, *Gaussia*, *Halisturia*, Vampire squid, *Glyphus*, Mycotophid, *Vinciguerria*, *Howella*, *Florenciella*, *Chaudiodus*, *Melanocostus Sea Pens*, mollusc, mushroom, fish, insect, ctenophore and annelid systems.—

—<sup>64</sup> 65. The combination of claim 1, wherein a component of the bioluminescence generating system is selected from among *Obelin*, *Porichthys*, *Odontosyllis*, *Aristostomias*, *Oplophorus*, *Gaussia*, firefly, bacterial, *Mnemiopsis*, *Beroe Gonadostomias*, *Gaussia*, *Halisturia*, Vampire squid, *Glyphus*, Mycotophid, *Vinciguerria*, *Howella*, *Florenciella*, *Chaudiodus*, *Melanocostus Sea Pens*, mollusc, mushroom, fish, insect, ctenophore and annelid systems.—

Please amend claims 3-5 as follows:

*b2*  
3. (Amended) The combination of claim 1, wherein the [combination comprises] components of the bioluminescence generating system comprise a luciferase.

4. (Amended) The combination of claim 1, wherein [combination comprises] components of the bioluminescence generating system comprise a luciferin.

5. (Amended) The combination of claim 1, wherein [combination further comprises] components of the bioluminescence generating system comprise a luciferin and a luciferase.